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<110> Liew, Choong-Chin

<120> Method for the Detection of Alzheimer's Disease Related Gene Transcripts in Blood

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<150> US 10/802,875

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<150> US 10/601,518

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<150> US 10/268,730

<151> 2002-10-09

<150> US 10/085,783

<151> 2002-02-28

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<151> 2000-01-04

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<151> 2001-07-13

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<160> 112

<170> PatentIn version 3.2

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<223> n is a, c, g, or t

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gggtttcccg gggaaaccaa ccctttaagg ggtngggggg aatttcccc caaaaaaagg 120

gaaaaanttt tccggggggc ccacccggga agggntnccg gggaaggg 168

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<211> 438

<212> DNA

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cccacatttc catttttaat atatactgtg ctttacaaat attataatat gttttaaaat 180

atgttcacag aagcacctgg tctgtgaatg gcatgccagc attaaaaaaa ataagcattc 240

tttgaatata tatttagttt tttaatgtgg taggaaaatc aaagccagag ggagtagaaa 300

caaaatttgt gattttctaa atacttcttg gctgcaggga agaaaccacg tcccaggcga 360

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 aaagggggaa ggcccccaaa accggggggg gggnaaaaag gtgggtttcc ccctttttcc 180  
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caaattgggg ggnaaaccaa atttaagggg ggaagggggg gncccccccg ggaaaggccc 180  
aaggggggaa aattttttccg ggggtgggtn ggggggaacca atttaagggg ggggcccccg 240  
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ctgtacttga actctaaaac tgttggagaa actcagtgtc taccccaaca gattcatttc 180  
aaatagctgt aaaaggatg tttactccag aagaccagag ttgcttcttt tgaacttctc 240  
attccttggg cctaggaacc ctcatcacc tcatcccaac gtcaaccag atcttctctt 300  
ccataaacag cactccctca ggcccctgcc tgacacaggc atagactgtc atgttggatt 360  
cacagacagg ctgtgctaga ggaaacctct ggggctcacc aggggccgtg ggatgggctt 420  
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tttaggcggc accccaacaa caccaggccc tactttttcc aaggncgggg aagcccatgg 180  
gttctgggna acgggcaatg cgggcttgca acgggnggaa naaaaacagn cccaaaagaa 240  
tg 242

<210> 20  
<211> 181  
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<400> 20  
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tctcagctca ctgcaacctc cacctctcag gagaattgct gaacctggga ggcggagggt 120  
gcagggagct gagattgcgc cactgccctc catcctgggc gacagagcaa gaacctgtct 180  
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tnccccnccn nttnanacna aanntngcac tcttggtgtg                                100

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<210> 22
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 tttgnggctg cngcccctgt gcctggtgcc acaacaaatg 100

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 aaggggggtg gggaagagcc aaatttcttt gggaaanaac gcccccttgg ggaaaaanaag 180



gcccaaccacc tttcaacanc ccccaangcg nggaagccat ttcttgg 227

<210> 25  
<211> 306  
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ttcgaccatg tgccttccca ggttgatgaa gacattgcta cacagtctgc agatcaggaa 120  
ggaagaattg tatgtgggag tttttaatgg tctcatttca ttggctataa ctcagttaca 180  
aggagaaaata taactgcaga ggagctttga aaatttagtt cagctgaggg taaaggaaga 240  
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 ttgaggcgaa aggactcgcg gatttgacgc ttgatgcggt tgcgctcgac ggcgagcttg 180  
 acgctctttt tgccgatcac caaacctagg cggggatgat caagctgggt atcgcgcgct 240  
 agcagcagga cactttttgcc cgggagcttt accgcttggg gagtcgaaga ctgccttgna 300  
 ttgccgggga gtcagcagtc gctttttccc ggnccaagcc tcgaactcac cancctgtct 360  
 ggattaatta gacagcaaga cgcttgcggc ccctttggcg cgaacgaacn ncgaaaagga 420  
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 gccaaacccc cc 492

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 gagaaccccc cacaccgaaa ggctaaggat tcctccgcta tgtcaatcaa cggaggggta 180  
 gtcgggtact aaggcgtag cgaaggcgaa gcgccgatgt gaaggggggtt aatattcctc 240  
 cacttgccat gcgtgtgaat ccatgacgga gacgaagccg ggggtgcgtc ctgacggaag 300  
 tgggcgccag caggggcggc cttcgggcca aaccgaacct caggtcanac ttccaagaaa 360

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agtggggtgaa acgccagcgc atggcaaccc gtaccgcaaa cgcacacagg tagccggggg 420  
 anaacatcct aaggngctcg agagtacttt ctagagcggc cgcgggcccc atcgantttt 480  
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 aagaaggaac ccaccctngg ggccaaacaa aaacttaaaa acccccccat ttcntncccc 180  
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actagatttt actgtagatg gtagataaaa gtccagtga aagcaaagat gtgtaatgtt 180

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tgnaatacta ttgcctctta tatacacnac caannntgcg aagggcnann nnacctttnc	180
cantnnnctg gggnccccacn nnnngngaact gagagtggat cttgtgtacc tgacnnacca	240

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ancancactg accctgccga cgccagangc cgcanatccg gagantncat gngacnatat	420
aggttaccnc cttcnaccgg gcancaatct gcttctatgg tgaatgcaga ccatntagaa	480
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tgntagatga nnnngntgctc ncccttgngg ctnacaaatt ccancaccnt tgggtggcngc	600
agccnttaag ancacttntt ttgggttgcg ctnttggatg aattacnaat agnntgtttt	660
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actggaaatt ttg	733

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<213> Human

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tagatatggg aagattatag gaggcgacaa ctaccgagcc tgggtgatagc tgggtgtccaa 180  
gaagagtctt agttcattta ttggccccag aaccctctaa tccccttgta atttatgtca 240  
agaggaacag ctcttttgac actggaaaac cgtgagagag taagatttac acccttaggg 300  
gcctaatagc agccaccatt aagaaagcgt tcgctccaca cccactacct aaaaatcgaa 360  
tataactgac tcctcacacc caattggcca atcattcccc tataaaagaa ctatgttagt 420  
ataagtaacc tgaaaacatt ctctctgca taagccctgc gttggattat atcctgcact 480  
gacaattaac tgccccaata tctacaatcc aaccc 515

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ggatttgggg tttagaggta caattgcctt tttatggtta gagaaaggct ctggggctgg 180

agggagcctg acgatctgct ctgtgtgcaa ggggagagtt aactctgcac gcaagagcct 240

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<212> DNA

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<213> Human

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aggagaattg cgtcatttaa agcctgttga cgcttttctc ccgcagacga atggaaagat	180
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<211> 262

<212> DNA

<213> Human

<400> 58

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acctgggtcac cgagttgcga accagcctcc aatatgtgga accctgtact ctctaaaaat	120
caaatcaccg gcatggagat tgcgcctgtg gtcccaaaat actcgggctg ggacacgatg	180
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agagcgagac tccatctcta at	262

<210> 59

<211> 430

<212> DNA

<213> Human

<400> 59

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cccgggggag gggatatccg tttataaacc ccaagggtat tttcttagca aaataactta	180
aaccggcccg ggtttttata caaactggga acccactttt gaaaaatttt ggccttttga	240
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aagtattccc ccccgggggg cctttacaaa aagggcggtt ttaaaagctt ttgggcccc	360
ctaggggaatt gttttaacac ctaaaaaccc ctgcttccct taaaggggcg ttctttaatt	420
tgggggcggc	430

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<212> DNA

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atcctactag cttggaggat ttgaaccgat tatgaatacg caatactccc ggtcctcatg	120
tatcatgtgt aagcccatct cctgggaggg ctaacatact accatctcca aggagaggca	180

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tctaagactt gctagaaaca accaccacat ttgatgctta atcaccactc tgacgcgcat	300
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aataatcagg caaatcctta agaataaggg caattaagga tgactagccc tacaagattt	180
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aataatccac cagatacaag tttgcatcaa cttctgtgaa atattttttt tcctttttgt	180
tgggcatttt tatgggtctaa atatagaatg accaatgcct ctagaacaaa cttgacctgg	240
tcagtgttat caagaagcag actgtttctt actttctttg tatttcctta cttattttaa	300
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ccaaccaaac caaaccaaac caaacagac cagaccagac cagaccagac caaaccaaac	540
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<211> 291

<212> DNA

<213> Human

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gaacacatgc tgaagatcat ctaactcaat atggcgcata tttctatgtc ttgctgcccc	180
ggacatagga caacttcgtc gctcactagt tctaacatat taatgctggc gtaggtggag	240
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tatatattcaa atgtcttgct aacagtgggt actttgctct atccttagct atacgtctcg	180
aggcacattg ttctctatg ccccgctacg ctttgcccta gagctcggcg gtatctatat	240
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<212> DNA

<213> Human

<400> 65

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<400> 66

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attatttttcc caacaaattg gcattcatag atagaataag ctgactaaga ctacttagcc 180  
ccacatttttt ttctacttgc tccaatagca ctaacaaata ggaagctctt gcttgctccc 240  
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aggagagactg gttttttaca gttgtctatg agagagatga cagttgcctg gattatgggtg 240  
gtgacattgg agataagcag gtagacagat tctcagtgtg ttaggagaga aaaatcaata 300  
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 tgaaatgata gatgagataa aatgatgata tgaaatgatg agatgaatga tgagatgatg 180  
 agatgaatga tgaaatgaaa tgatgagatg agatgatgaa atgaaatggt gagatgaaat 240  
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 gatgagatga tgaaattgat gaaatgatga gatgtgatga gatgaaatga tgagatgaga 360  
 tgagatgaca tgaaataatg aaatgaaatt gaaatgagat aagatacgag ctgagatgca 420  
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 cacag 125

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 atgagatgaa atgttgaaaa gaaaggagga aatgatgagg tgagatgaaa tgatgagatg 120

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cctgagatga aatgagatga aaaatgatac gaaaaatgat ataaaaaata tgacatgaaa	240
tgaaatgaga tgatatgaaa tgacataatg aaatgatgaa ttgatgatat tgaaatgaaa	300
ttgaaagatg agatgaaatg atgagatgaa atgaaatgtt gaaatgatga agagatgtga	360
catgaaatga gctgaaatga gatgaaatga aatgagatta aatgatgaga tgaaaaatga	420
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 <223> n is a, c, g, or t

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 <223> n is a, c, g, or t

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 <222> (233)..(233)  
 <223> n is a, c, g, or t

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aaatgaaatt agatgaaatg taatgagatg aaatgaaatg acctaatagaa atgaaataat	120
gaaatgagat gaaataaaaat aatgaaatga tgaaataatg aaatgaaaat gagatggaaa	180
tgatgagatg agaagaaatg atgagatgaa atgatgaaat gatgagatga ganaaaatga	240
gatgaaatga tgagatgaga tgaaatatga tgagttgaaa tgacataatg aatgaaatga	300
tgaaatggaa taatgaaatg gaaatgatga gctgagatgc aatgagttga aatgagatga	360
aatgatgaaa tgatgagatg aaatgatgaa atgaaataat gaaatgagat gaaataaaaat	420
aatgaaatga tgaaataatg aaatgaaaat gaaatggaaa tgatgagatg agaagaaatg	480
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cataaaatga gatgaaatga gatgtaatga tggaatgaga tgagatgaaa tgagatgaaa 180  
tgatagatga gataaaatga tgatatgaaa tgatgagatg aatgatgaga tgatgagatg 240  
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<210> 75  
<211> 155  
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<213> Human

<400> 75  
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 cgccatgaaa tttctgctcg attagcttac gttgtttgga tagaggccaa acaaggctgt 180  
 tatcgggtacg aggaatggat gttcgatttc gtagaatacg cctgagagac ggcgaatact 240  
 ctcacgagag gcagcaggcg cgtaaattac ccaattacaa caagtagagg tagcgaagga 300  
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 atagaaatca ttattttctgt gggatggata attgggccaa attgtaaaat attttaacta 120  
 tcagtgtttg gggttttattt ttaaaagaat aggggtgccac cagatgttct ttagtggagg 180  
 agaaatgagg ccagagtgcg tgcctagaaa attaagtggg taaattaatc acttttttct 240  
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<210> 78  
 <211> 373  
 <212> DNA

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<213> Human

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 nntaantaaa aaggggtgaag aannttactt cncttggtcc taaaaaacnt tttcntcagt 120  
 tattaccaaa atatttggac cattantaaa gantaggggcc aaccnaatt tttcttgaaa 180  
 tttccgttaa atagccgtta aatgttttta cccatttcat attggatacc ttaaattata 240  
 ataatggatt ttattgttaa attgtgtgtg tgtgggtgtg atgccctgtc ttttctcctc 300  
 taccattatt gtcactttat gtttggaacc ccctttaccc ttccttaaag gaaaaaaagg 360  
 gcccggggtt ttt 373

<210> 79  
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ccctgatgtt caagtattta agaccctatg cnaatatattt ttaccttttc taataaacca 120  
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<210> 80  
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<223> n is a, c, g, or t

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ggccaggcct tccctttaa aaaaaatnac cgtttttngg gggangnaac ctttaaaagg	120
ggaaaaanaaa tccttttttaa anggaantcc aaggggaagga ncctgnncaa nacttcccn	180
ccaataaaaa aaacnntttt ggaaangggg aaa	213

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 <223> n is a, c, g, or t

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tgatgaaatg agatgagatg agaagaaatg acttgatgag atgagataaa atgatgaaat	120
gaaatgaagt gaaatgaaat tgaaatgaga tgagatgaaa tgagataaaa tgatgagatg	180

SEQLST~1.TXT

aaatgagaag aaatgagatg aaatgatgaa atgatgagat gagatgaaaa atgatgggat	240
gagaaatgag atgaaatgat gggatgaaat gaaatgaaat aatgaaataa tgaaatgaaa	300
tgaattgata atattgaagt gaaattgaaa gatgagattg gatgaaatga tgagatgaaa	360
tgaaatgttg aaatgaaatg aagagatgta acatgaaatg agctgaaatg atgagatgaa	420
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gacctctgaa tgtattantg anncaagtga tagccaagat attttgaaga aaaatagata	120
ntagggacct gctctataag cccatcataa ttattatga agttataaca agtaaaacag	180
taagggtattt ggcattggaat agagaaccga gaaacagacc caatgcatgg gtacaggata	240
taacacaggg aaatgagggg caatatatgg ttctgggata attatttata tggggaaaat	300

SEQLST~1.TXT

aaagaaattg gatccctacc tcacacatac aaaaaaatc ataattgaat taaaaacttg 360  
catgtgaaag gaaagacttt aaaacattta gaaaaagtat tggaggctat gatcttgggg 420  
taggaaagca tttctttttt tt 442

<210> 83  
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<223> n is a, c, g, or t

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aggaaggaag gaagg 135

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<213> Human

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gagttgcctt ctgtaagtgc ccctactatc aaggtttcat ggaaaatcta ggcaaggcag 120  
aacttcctca gaaggacaag agacaaagaa gtggggggagg ccctcctatc catagctgag 180  
agggtttatt ctttgtgggt ctgctgtcag agcctttgga tgtctgatct gagatggagc 240  
aaccagct agacagaact ttgtagattt tgggggggtt aaaaggcctc aagcaaattc 300  
taaaactttc tttgaacccc ctggcatagg ctgactttcc ctgact 346

<210> 85  
<211> 100  
<212> DNA  
<213> Human

<400> 85  
acaaaaagcc cctttaaact tgggcccgt cgaggctggt tcgactgggc cgagacttcc 60



SEQLST~1.TXT

gaaaagaaaa tggttttttt tgccgaaatc aaccgggtaa 100

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<400> 86  
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attacctctt tttgtgacca ctcttaaagg ccaggaacat atttggagaa gcctagtgtg 180  
atgtaacagt gtggggtttc a 201

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tcttttacct cggcactcgg gtccaccctc gcggcaccag aggtattctc cggcgagtcg 180  
ttaaccatcg caatcgccga ccgagtttaa ggaccactcc ccacctttct cattagttaa 240  
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gtcgagtccc tcttcctctc tttatgcatt tagagcgctt tcgtaagagt tttccctaga 360  
ttcttctaag cgtagcgcgt ctactccaat gttttcgta atccagcccg aactaacgcc 420  
gcggaggagt cgatccgtct actcctatcc cgtcggctcg gatttactac aggagctaag 480  
aaaacaaaaa gtaccagccc taaaggaaag tcaaaggacg cccgtaaaaa a 531

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<400> 88  
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acagccaaac cggtcgcccc aaggcctccg tcgttttata atatattccg tttacgtata 180  
aggaacgaac cccccctcat taccacggtc ccgcgtccgc ctcttctctc attcgcaaca 240  
gttctattcc tttcagcctc ccgtacctgc ttccagaaca tcgcaccgcc atagtcgaaa 300  
gatagcaaag attaccagc ttctattcct cgccccagag ccgagtaaat cgaagtttat 360  
agaggcggaa tccaaccatt caagagttat aacaagttat cggcactcgg gggatcagaa 420

SEQLST~1.TXT

tataaactta atgtccccctt tattctcccg gacgccccctt ttaaccactt cttcctatct	480
ttcgctaaca agccattgac ggcgctttgc cgcgcgggcc catctcgcgt	530

<210> 89  
 <211> 332  
 <212> DNA  
 <213> Human

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<400> 89

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ttccaccggc ctgggttttg tttttccata attaattaac caggggggncc anttaaaaaa   120
aattaaggna aggnnttaaaa aatttaacca angggggggtt taaagggnntt ttttttttta   180
aaaaaaaagg ttaaancccc cccttttttt ttgggttggg gtgggaaaat tttgggaanc   240
cttaaccccc ggggtttttg gtttttttgg ccaaaccccc ccggaaaaaa attaaaaaaa   300
ggaccggttt ccattttaat gggatttggg aa                                   332
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<210> 90  
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cgggtggtaac tattaaaaca taagtttaat cgggtattta aatttttaaa tcaaaaaaaaa   120
taaaatatat gcaaccctcc attccaagga agtatgatgt tactagatta tctgaaaatt   180
ctcct                                           185
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<211> 365  
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tcgttatgct ttccaatcct gcttgcaata taagacacaa agtcagaata aagctcaaga   180
aaacagaacg tgcaggccat caagcgcaga gcctgctcat tggacaaccg caaagagtag   240
taagtgtgc cgctattcac acttagaaaa ggagaaccac ggggaaaaac caaattaatg   300
gggctgcttt ttgtcactct ggcattagag aattgtgnng aaantttaac ttttgtaagc   360
ttgta                                           365
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 <213> Human

<400> 93  
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 <221> misc\_feature  
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 <223> n is a, c, g, or t

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<400> 100	
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tccccttgaa nntctctaaa ccttaacttt ctggccnttt tgtttcagan atgcctaacc	120
ctcagggggt cttttgttct ctacgcctaa aaacttaatc tgtttgaac aattccnttt	180

SEQLST~1.TXT

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cctctctgta gaaattgacc tggccatggc tcctgtgaat gatacggttg ctattatccc 240
tgaacactgt aaaaatgaac tttgaaacag ttgggtagga cccaaacaga aaatgatgta 300
tggcttggaa atagtttagc tgaacattat gctttaatat tttactggcc attgcagcac 360
aggtttagaa atttatgttc ggctttttta agtttta 397

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<210> 101
<211> 132
<212> DNA
<213> Human

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<220>
<221> misc_feature
<222> (121)..(121)
<223> n is a, c, g, or t

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<400> 101
gttacctaat gttttactct cattttcttt ttctttatatt ttcatttgta aaataggaac 60
attaattgta ctactttcaa aagaattaat tgaagaaaga gagatacagg gtatctaggc 120
ngaggaagac cc 132

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<210> 102
<211> 246
<212> DNA
<213> Human

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<400> 102
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aaaaatagat aatggtaatc caagcacgat ggtagccatc actctaattg ctttgggggtt 180
aacctataac ttattaagta aagtgccaga atgggttcttt gacagtatta aaattaaaga 240
aaacag 246

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<210> 103
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<220>
<223> forward primer of exon 1 of insulin gene used for quantitative
RT-PCR analysis

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SEQLST~1.TXT

<210> 104  
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<220>  
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 quantitative RT-PCR analysis

<220>  
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18

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<220>  
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 analysis

<220>  
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24

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 analysis

<220>  
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<400> 106  
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24

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SEQLIST~1.TXT

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<220>
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<220>
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<210> 110
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<220>
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<210> 111
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SEQLIST~1.TXT

<220>  
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<210> 112  
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<212> DNA  
<213> Artificial Sequence

<220>  
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<220>  
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ggattaaaat gaagcaccca ga 22